

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method for transmitting information from an interrogator system to portable objects[[]], ~~wherein in this method~~ the information is transmitted through radio carrier wave amplitude modulation over several time intervals, called "~~pulses~~" pulses, and with positional coding of these pulses, ~~the characteristics of which are as follows comprising:~~

[[]] applying ternary amplitude modulation, ~~is used in which the~~ wherein a first amplitude level [[(B)]] is used with a second amplitude level [[(A)]] that is below the first amplitude level, and a third amplitude level [[(C)]] that is above the first amplitude level, [[(B)],] ~~whereby wherein~~ the ternary amplitude modulation either passes from the first amplitude level [[(B)]] to the second amplitude level [[(A)]] ~~(and is then called negative polarity)~~ or from the first amplitude level [[(B)]] to the third amplitude level [[(C)]] ~~(and is then called positive polarity); and~~

~~• positional coding is obtained by forming two opposite-polarity pulses (I_1 and I_2) in~~ [[]] a same pattern to provide positional coding, ~~in which the~~ wherein a position concerned is that of [[]] a second pulse [[(I_2)]] relative to [[]] a first pulse [[(I_1)]].

Claim 2 (Currently Amended): [[]] The method in accordance with of claim 1, ~~whereby wherein~~ the information is grouped into messages made up of a sequence of patterns and ~~whereby~~ each of said patterns is associated with an information symbol and contains a code time area [[(Z)]] divided into N identical time units, each ~~of T_c~~ time unit of length T_c , where T_c at least equals [[]] a length of the pulses (I_1) a pulse in any of the N time units in the code time area [[(Z)]].

Claim 3 (Currently Amended): ~~[[A]] The method in accordance with~~ of claim 2, ~~whereby the~~ wherein a number N of time units ~~[[N]]~~ within the code time area ~~[[Z]]~~ equals 2^M , where M is an integer~~[[;]]~~, and the information symbol transmitted by each pattern ~~then consists in~~ comprises a binary word ~~containing~~ including M bits.

Claim 4 (Currently Amended): ~~[[A]] The method in accordance with~~ of claim 2, ~~whereby~~ wherein each message is structured in frames, each ~~of which~~ frame is made up of a first pattern called ~~[[the]]~~ a Start Of Frame (SOF) marker ~~comprised~~ comprising:

~~[[of]]~~ a first time area ~~[[Z]]~~ divided into N time units; ~~[[T_c]]~~
a first pulse ~~[[I₂]]~~ placed before ~~this~~ the first time area; and
a second pulse, ~~[[I₂]]~~ with the same polarity as the first pulse, ~~[[I₁]]~~ and, placed within ~~this~~ the first time area, ~~[[the]]~~ wherein said Start of Frame (SOF) marker, ~~which~~ is followed by patterns associated with the ~~message's~~ information symbols of a message.

Claim 5 (Currently Amended): ~~[[A]] The method in accordance with~~ of claim 4, ~~whereby~~ wherein the second pulse of the Start Of Frame (SOF) ~~marker's second pulse (I₂)~~ marker is always placed in ~~[[the]]~~ a same time unit in the first time area ~~[[Z]]~~.

Claim 6 (Currently Amended): ~~[[A]] The method in accordance with~~ of claim 5, ~~whereby~~ wherein the second pulse of the Start Of Frame (SOF) ~~marker's second pulse (I₂)~~ marker is always placed in ~~[[the]]~~ a last time unit in the first time area ~~[[Z]]~~.

Claim 7 (Currently Amended): ~~[[A]] The method in accordance with~~ of claim 4, ~~whereby~~ the frame also ~~contains~~ comprises a last pattern~~[[,]]~~ called ~~[[the]]~~ an End Of Frame (EOF) marker, ~~made up of~~ said End Of Frame (EOF) marker includes a second time area

[[Z]] with no pulse and a pulse [[I₁]] placed before said second time area.

Claim 8 (Currently Amended): [[A]] The method ~~in accordance with~~ of claim 4, ~~whereby~~ wherein a first guard time [[T_{g1}]], ~~[[the]]~~ a duration of which is a multiple [[K₁]] of the time unit [[T_c]], is placed between the first pulse [[I₁]] and the end of the first time area [[Z]].

Claim 9 (Currently Amended): [[A]] The method ~~in accordance with~~ of claim 8, ~~whereby~~ wherein a second guard time [[T_{g2}]], ~~[[the]]~~ a duration of which is a multiple [[K₂]] of the time unit [[T_c]], is placed after the first time area [[Z]].

Claim 10 (Currently Amended): [[A]] The method ~~in accordance with~~ of claim 4, ~~whereby,~~ wherein ~~in each pattern,~~ the time area [[Z]] is followed by a wait time [[T_a]] in each pattern.

Claim 11 (Currently Amended): [[A]] The method ~~in accordance with~~ of claim 10, ~~whereby~~ the wherein a length of the wait time [[T_a]] is modified for different patterns depending on transmission conditions.

Claim 12 (Currently Amended): [[A]] The method ~~in accordance with~~ of claim 10, ~~whereby~~ the wherein a length of the wait time [[T_a]] is modified depending on ~~[[the]]~~ a length of the messages that the portable objects retransmit.

Claim 13 (Currently Amended): A method ~~in accordance with~~ as in any one of the ~~above preceding~~ claims, ~~whereby~~ wherein the first pulse $[(I_1)]$ is of negative polarity.

Claim 14 (Currently Amended): A method ~~in accordance with any one of the above~~ claims according to one of claims 1-12, ~~whereby the~~ wherein an amplitude modulation index is lower than 50%.